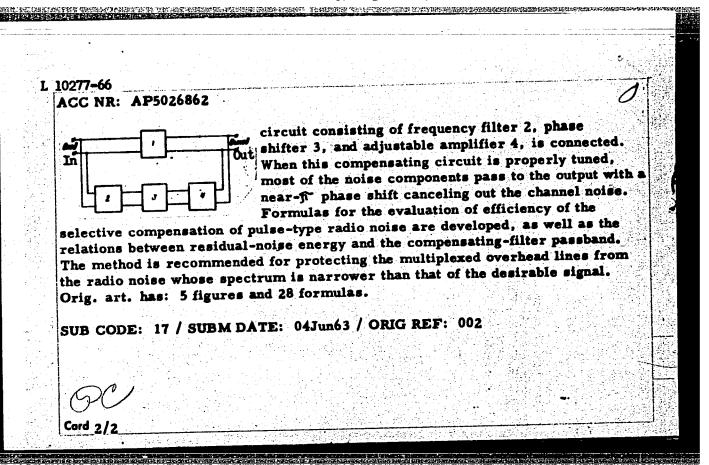
RODICHOV, Y. A.

"Microclimatic Conditions in Pre-fab Finnish Homes,"
Gig. i San., No. 8, 1949.
Mbr., Moscow Oblast Sci. Res. Hygiene and Sanitation Inst., -c1949-.

L,	10277-66 EWT (d)/FSS-2
	ACC NR: AP5026862 SOURCE CODE: UR/0108/65/020/011/0043/0049
	AUTHOR: Rodionov, Ya. G. (Active member); Shushin, V. M. (Active member)
	ORG: Scientific and Technical Society of Radio Engineering and Electro-
	communication (Nauchno-tekhnicheskoye obshchestvo radiotekhniki i elektrosvyazi)
	TITLE: One variant of the frequency filtration method used for suppressing undesirable signals
•	SOURCE: Radiotekhnika, v. 20, no. 11, 1965, 43-49
	TOPIC TAGS: signal noise separation, radio communication 4
	ABSTRACT: Use of the conventional method of filtering out undesirable signals often requires unwieldy changes in communication-channel parameters. Hence, a joint method of frequency rejection and noise-band compensation is suggested ("selective compensation"). In parallel with a certain line unit 1, a compensating
	Card 1/2 UDC: 621.372



FGDIONOV, Ya. G.

"Experimental Study of an FM Receiver With Controlled Resonant Frequenc,," pp 69-80, ill, 5 ref

Asst: The author gives the results of experimental studies with a short description of the methods used. It is concluded that this receiver actuall provides an increased noise-free stability in the reception of a useful signal with the retention of a comparatively high quality of reproduction of the latter.

SOURCE: Trudy Gor'kovskogo Folitekhn. In-ta im. A. A. Zhdanova Min. Vvssh.

Obrazov. Radictekhn. Fak. (Norks of the Gor'kiy Polytechnic Institute im.

A. A. Zhdanov of the Ministry of Higher Elucation, Radio Engineering Faculty),

Volume 12, No. 2, Gorky, 1956

Sum 1854

AGEYEV, Dmitriy Vasil'yevich; RODIONOV, Yaroslav Grigor'yevich; SHAMSHUR, V.I., red.; VORONIN, T.F., tekhn.red.

[JM radio receivers with a discriminator and oscillatory circuit arrangement] ChM radiopriem so slediashchei nastroikoi. Moskva, Gos.energ.izd-vo, 1958, 131 p. (MIRA 12:3)

(Radio--Receivers and reception)

69826

6.7300 (1524) 6.9416 6.9800

S/111/61/000/001/001/002 B107/B212

AUTHORS:

Gorbachev, A. A., Candidate of Technical Sciences, and Rodionov, Ya. G., Candidate of Technical Sciences (Gor'kiy)

TITLE:

Method of increasing the interference immunity of multi-

channel systems used for high-frequency telephony

Vestnik svyazi, no. 1, 1961, 13-14 PERIODICAL:

TEXT: A unit that is able to suppress periodic pulse interferences in multi-channel systems of high-frequency telephony is briefly described. The unit has been developed by the Gor'kiy Scientific Research Institute. It works on the principle of eliminating the signal and also the interfering pulse. If the duration of the short interruptions does not amount to more than 35%, then the conversation is still well intelligible, even under adverse conditions, i.e., if the interruptions have a frequency of 300-888 cps. The unit consists mainly of three subsequent stages. 1) The first stage separates the interfering pulse from the mixture of signal and interference, and is used to control all other

Card 1/4

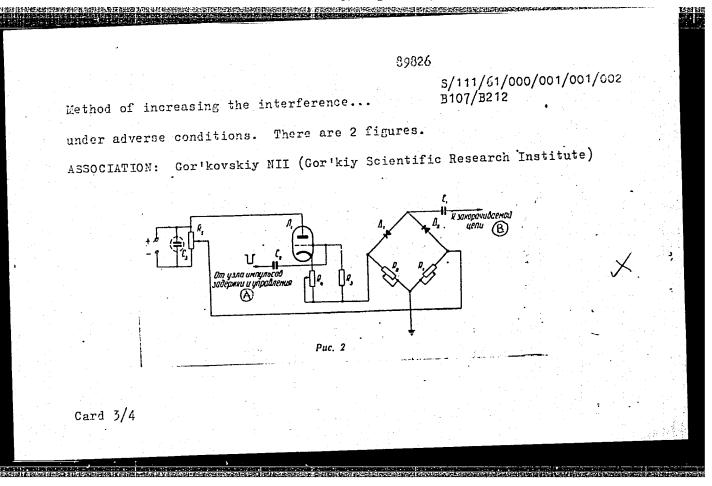
89826

S/111/61/000/001/001/002 B107/B212

Method of increasing the interference...

stages. This stage consists of a tuned amplifier which is tuned to the carrier frequency of the interferences, and its resulting band width is such that the interference amplitude is amplified maximally compared to the signal. 2) The second stage delays the interfering pulse by an interval which roughly corresponds to its period, and a control pulse is generated, which corresponds to the duration of the interference pulse. The stage consists of a number of multi-vibrators which are cleared by pulses of stage !. 3) The third stage is blocked for the duration of the control pulse. Every pulse is used to eliminate the following pulse. Fig. 2 shows a simplified circuit diagram, and the mode of operation is explained in its legend. The unit has been tested with communication systems of the type B-12 (V-12) at three amplifier stations. The input has been applied to the socket of the filter K-33 (K-33), and the output to the control grid of the second amplifier tube of the element By (VU) belonging to the system V-12. It has been found that the psophometric interference voltage will drop by a factor of 3 - 25. Transient interferences and non-linear distortions of the voice signal are much higher due to the method applied, but intelligibility is maintained even

Card 2/4



89826

Method of increasing the interference...

S/111/61/000/001/001/002 B107/B212

Legend to Fig. 2: A - from stage 2; B - to short-circuited chain; main component of the stage is a two-side diode limiter consisting of diodes \triangle_1 and \triangle_2 . The diode limiter is connected to the receiver part over a tuning capacitor C_1 . Between two interference pulses, the limiter is blocked by the current passing through resistors R_1 and R_2 . The current is controlled by R_4 ; tube \mathcal{N}_1 is used to open and close the circuit. A control pulse will block the tube when an interference pulse has been received; the limiter opens, and due to its small resistance, the group tract of the system is short-circuited. Tube \mathcal{N}_1 opens again when the pulse stops, and the limiter is closed again. A bell-shaped pulse is found to be best for a blocking pulse.

Card 4/4

RODIONOV. Ya.G.

Optimum band-pass of a filter in a receiving system for frequency modulated signals with follow-up tuning. Radiotekhnika 15 no.9: 47-53 s '60.

(MIRA 13:9)

1. Destvittel'nyy chlen Mauchno-tekhnicheskogo obshchestva radiotekhniki i elektrosvyazi im. A.S.Popova.

(Electric filters) (Radio frequency modulation--Receivers and reception)

Experimental investigation of an PM receiver the controlled resonant frequency. Trudy GPI 12 no.2:69-80 (MIRA 10:5) (Radio frequency modulation)

RODIONOV, Ya.G.

Concerning the action of weak harmonic interference of FM reception with follow-up tuning. Radiotekhnika 16 no.11:34-38 161.

(MIRA 14:10)

1. Deystvitel'nyy chlen Nauchno-tekhnicheskogo obshchestva radiotekhniki i elektrosvyazi imeni Popova.

(Radio-Receivers and reception)

经支票的性理证据的人,这一次是否这些证明的,就是我们的是国际,我的现在,这些不知识,但是可以对于,可以的证明,我们也可以可以是我们的是是我们的,我们的是我们的

RODIONOV, Ya. G.

Rodionov, Ya. G. - "The Development and Investigation of an FM Receiver with Controllable Resonance Frequency." Min Higher Education. Gor'kiy Polytechnic Inst imeni A. A. Zhdanov. Chair of Radio Receiving Equipment. Gor'kiy, 1950 (Dissertation for the Degree of Candidate in Technical Sciences).

So: Knizanaya Letopis', No. 10, 1950, pp 116-127

6(4) SOV/112-59-4-7964

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 4, p 222 (USSR)

AUTHOR: Rodionov, Yz. G.

TITLE: Developing an FM Receiver With a Controlled Resonant Frequency

PERIODICAL: 'Ir. Gor'kovsk. politekhn. in-ta, 1957, Vol 13, Nr 1, pp 95-106

ABSTRACT: An FM receiver with a controlled resonant frequency for high-fidelity low-noise reception is considered. The investigated part of the receiver comprises a controlled-resonant-frequency stage with its anode load in the form of a narrow-band circuit whose resonant frequency is controlled by a parallel reactance tube and by a frequency detector; the latter's output, via a special coupling circuit, is connected to the reactance-tube input. Principal considerations about selecting the reactance tube, frequency detector, and coupling circuit are formulated. The principal circuit diagram is described; graphs, nonlinear-distortion characteristics, and an equivalent frequency characteristic are presented. The new controlled-resonant-frequency scheme

Card 1/2

SOV/112-59-4-7964

Developing an FM Receiver With a Controlled Resonant Frequency

of the receiver is not complicated, as compared to a conventional receiver scheme; it includes only two additional tubes. Estimated characteristics show that a receiver with the above scheme would ensure a high-fidelity low-noise reception of FM signals.

M.V.N.

Card 2/2

RODIONOV, Ya-G

6(4); 9(8)

PHASE I BOOK EXPLOITATION

sov/2669

Ageyev, Dmitriy Vasil'yevich and Yaroslav Grigor yevich

ChM radiopriyem so sledyashchey nastroykoy (FM Radio Reception With Automatic Tuning) Moscow, Gosenergoizdat, 1958. 131 p. 21,000 copies printed.

Ed.: V.I. Shamshur; Tech. Ed.: K.P. Voronin.

PURPOSE: This book is intended for radio engineers, instructors and students of radio-engineering departments of vuzes.

COVERAGE: The authors present the results of theoretical and experimental studies of FM reception conducted at Gor'kiy Polytechnic Institute imeni A.A. Zhdanov in 1951-1954. They describe an FM receiver with a resonant circuit in the pre-detector stage. They also discuss the results of testing and show that the introduction of two additional tubes in the receiver circuit considerably increases interference stability with relatively little change in receiver fidelity. Card 1/6

FM Radio Reception With Automatic Tuning (Cont.) SOV/2669 They also state that the gain in stability during pulse interferences is equivanlent to increasing the power of an FM transmitter 3.6 times or equivalent to almost twice the area served by FM broadcast. Chapters 1 and 2 were written by D.V. Ageyev and Chapters 3 and 4 by Ya.G. Rodionov. No personalities are mentioned. are 2 references, both Soviet. TABLE OF CONTENTS: Foreword 3 Linear Theory of FM-Signal Reception by Means of a Resonant Circuit With Automatically Controlled Resonant Frequency 7 1. Introduction 7 General-case equation of a resonant circuit with automatically controlled resonant frequency 9 Linear-case equation of a resonant circuit with automatically controlled resonant frequency 10 Card 2/6

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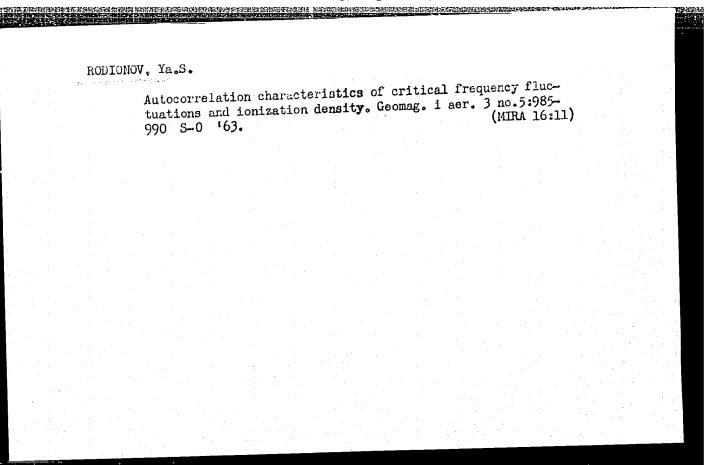
GORBACHEV, A.A., kand.tekhn.nauk (g.Gor'kiy); RODIONOV, Ya.G., kand.tekhn.nauk (g.Gor'kiy)

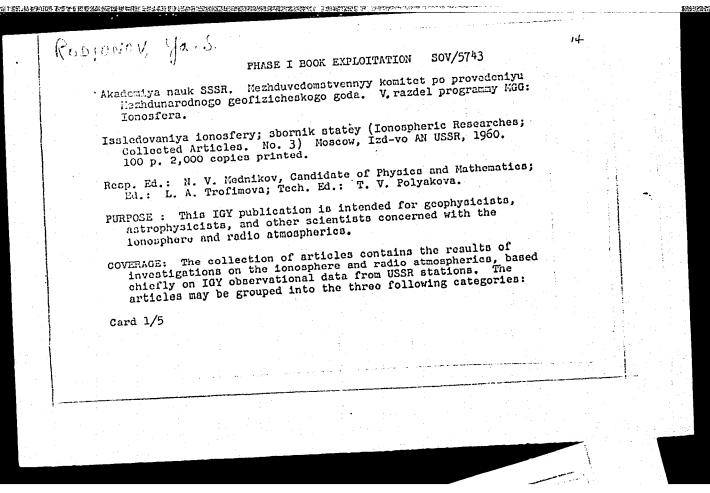
Method for increasing the interference rejection of multichannel
high-frequency telephone systems. Vest. sviazi 21 no.1:13-14
high-frequency telephone (MIRA 15:5)
Ja '61.

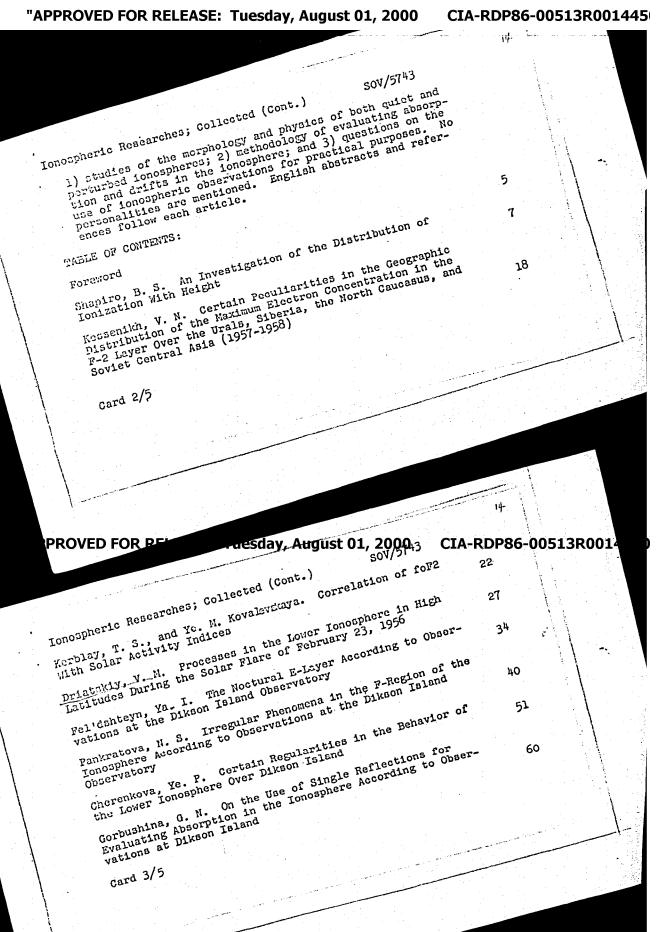
RODIONOV, Ya.S.; GUBENKO, V.S.

Possibilities of a quantitative forecast of the state of the ionosphere. Elektrosviz: 15 no.12:64.-66 D :61.
(MIRA 14:12)

(Ionosphere)







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ACCESSION NR: AP3000149 AUTHOR: Kalinin, Yu. K.; Rodionov, Ya. S.

Simulating the propagation of ground waves in the centimeter band

Izvestiya vysahikh uchebnykh zavedeniy radiofizika, v. 6, no. 2, 1963

SOURCE: 246-256

TOPIC TAGS: ground-wave simulator, centimeter-wave simulator

ABSTRACT: The simulator used for ground-wave experiments at 3.2 cm comprised a 460 x 200-mm vinyl box filled with dry sand, a 29 x 13-mm open transmitter waveguide, and a 22 x 10-mm open receiver waveguide; the oscillator used was described by Ye. L. Faynberg (Propagation of radio waves along the Earth's surface, Academy of Sciences, Moscow, 1961), and the receiver was represented by a detector circuit terminated with a voltmeter. Dry sand was used as a "poor" conductor, and metal plates, as a "good" one. The following combinations were investigated: sand and metal surfaces separately; sand section plus metal section; sand-metal-sand (simulating sirstrips); sand-metal with an oblique interface; various antenna heights. Some experiments were compared with

Card 1/2

ACCESSION NR: AP3000149

theoretical formulae, and good agreement was found. On this basis the simulator is recommended for both the scientific and the educational applications. "The authors are thenkful to Ye. L. Faynberg for discussing the results of the project and for the valuable advices. They also express their best thanks to project and for the valuable advices. They also express their best thanks to S. V. Borisov who took part in the experimentation." Orig. art. has: 10

S. V. Borisov who took part in the experimentation. "Orig. art. has: 10

SUBCITED: O5Feb62 DATE ACQ: 12Jun63 ENCL: O0

SUBCITED: CO NR REF SOV: O10 OTHER: O01

31206

S/106/61/000/012/010/010 A055/A127

9,9110

AUTHORS: Rodionov, Ya. S., Gubenko, V. S.

TITLE: On the possibility of a numerical prediction of the isnosphere state

PERIODICAL: Elektrosvyaz', no. 12, 1961, 64 - 66

TEXT: This article deals with the possibility of applying statistical extrapolation to the prediction of the critical frequencies of the F, layer some hours in advance. Calculations were made for the ionization density. For the extrapolation of this density a linear operator was used expressing the predicted deviation of the ionization density $\Delta N_{pred}(t_{pred})$ in the form of the weighted sum of the observed deviations in the preceding moments $\Delta N(t_k)$:

 $\Delta N_{\text{pred}}(t_{\text{pred}}) = \sum_{k=0}^{n} A_{k} \Delta N(t_{k}).$

The zero number corresponds to the last observation. The coefficients $\mathbf{A_k}$ are found from the system of linear equations:

Card 1/3

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Or the possibility of a...

$$\sum_{k=0}^{n} A_k R(t_k, t_m) = R(t_{pred}, t_m),$$

$$m = 0, 1, 2, ..., n;$$

where R(t₁, t_j) is the coefficient of correlation between the ionization densities at the moments t₁ and t₂. The ratio (where is the RMS deviation of the ionization density from its average monthly value, and bred is the RMS deviation of the predicted values of the ionization density from its real values) was the enterior of the prediction of t chosen as the criterion of the prediction efficiency. If Y < 1, the chosen extrapolation method gives a positive effect. After reproducing the formulae giving the probability of reflection and the probability of the absence of reflection, respectively, the authors state the practical results of their investigation. To take into account the fact that the process is nonstationary, an operator (1. e. a separate set of coefficients A_k) was calculated for every hour of the day. All the calculations were made for June and December. The time of observation was 18 hours, and the predicted time 6 hours. The results of the calculations (carried out by the electronic digital computer of T. T. Kulikova) show that the statistical extrapolation gives a positive effect for June as well as for December of the years

card 2/3

31200 S/106/61/000/012/010/910 A055/A127

On the possibility of a...

1948, 1950 and 1953. The index of the extrapolation efficiency for every month was:

 $\chi_{\text{aver.}} = \frac{1}{24} \sum_{i=0}^{23} \chi_i$

where Y_1 corresponds to the 1-th hour of the day. For December, the values of Yaver proved to be somewhat greater than for June. A table reproduced in the article shows the dependence of Yaver on the level of solar activity. This table indicates that there is no clearly defined dependence of Yaver upon the number of sun-spots. There are 3 figures, 2 tables and 4 references: 3 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: Shibata, Watanabe. On a method of short-term prediction of for "Journ. Radio Res. Lab.", 1960, 7, no. 29. The names of the Soviet-bloc authors or scientists mentioned in the article are: L. N. Lyakhova and T. T. Kulikova.

Card 3/3

06505

sov/141-58-4-21/26

AUTHOR:

Rodionov, Ya.S.

TITLE:

The Possibility of Scaling Down a Ground Wave

(K vozmozhnostyam modelirovaniya poverkhnostnoy volny)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika,

1958, Nr 4, pp 160-162 (USSR)

ABSTRACT:

The opportunity to study a model of a ground radio wave is attractive because the full scale phenomena is attended by so many variables. The model system is housed in a box measuring 90 x 18 x 25 cm made from stout plywood. The transmitter is a signal generator type 31-I, the sending aerial is an open-ended waveguide, the receiving aerial is a short length of short-circuited guide fitted with a detector, the amplifier following the detector is a type 28-I, the wavelength is 3.2 cm. A number of metal plates are available so that

well-conducting parts of the route may be simulated. The major part of the ground path is, however, represented

experiment has been given earlier (Ref 1). Fig 1 shows

by dry sand. The theory which is relevant to this

Card 1/3

06505 SOV/141-58-4-21/26

The Possibility of Scaling Down a Ground Wave

the attenuation coefficient and the number of Fresnel zones accommodated in the box. Sufficiently good quantitive results may be obtained with distances between transmitting and receiving aerials up to 50 cm, that is four Fresnel zones. A comparison of measurements with the theoretical curves plotted in accordance with Ref 1 shows that the effective permittivity of the "ground" is 5.6. The corresponding figure for resistivity is 109 c.g.s.e.s.u. units. Fig 2 shows the effect of a metal plate inserted in the middle of the transmission route and Fig 3 the effect of two metal plates, inserted at each end of the system in the immediate neighbourhood of the aerials. It will be seen that experiment only agrees with theory when the amount of highly conducting path is a very small fraction of the total route. The formulae used for calculating the curves are given in the middle of p 161. It is suggested that the method can be used with advantage to investigate the problems involving

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The Possibility of Scaling Down a Ground Wave

reflections and phase shifts in systems where the non-uniformities are not extreme. There are 3 figures and 1 Soviet reference.

SUBMITTED: 22nd April 1958

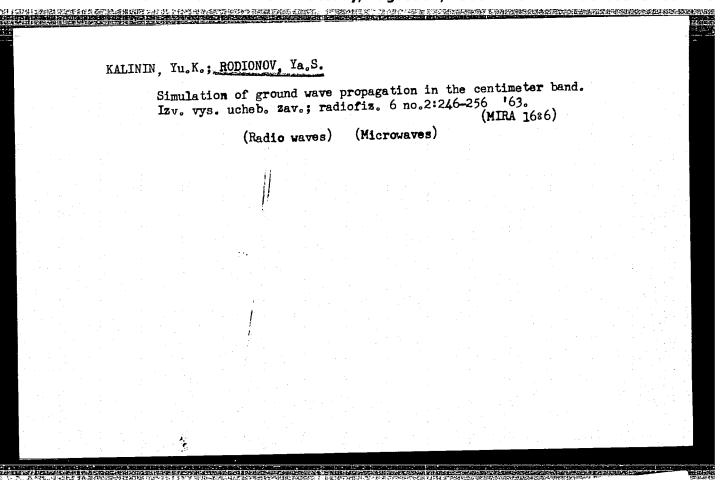
Card 3/3

AKOPYAN, A.A., kand.tekhn.nauk; KOMAROV, A.N., inzh.; KOLECHITSKIY, Ye.S., inzh.; RODIONOV, Ya.V.,inzh.; FOTIN, V.P., kand.tekhn.nauk

Testing of 500 kv. ai: cutouts in the transmission network of the Volga Hydroelectric Power Station (22d Congress of the CPSU) and Moscow. Elek.sta.33 no.1:37-45 Ja '62. (MIRL 15:3)

(Electric cutouts—Testing)

(Volga Hydroelectric Power Station(22d Congress of the CPSU))



5/196/62/000/013/014/018 E194/E155 Akopyan, A.A., Komarov, A.N., Kolechitskiy, Ye.S., Rodionov, Ya.V., and Fotin, V.P. Testing of 500 kV air circuit breakers on the transmission line between the Volzhskaya GES imeni AUTHORS: XXII s"yezda KPSS-Noskva (Volga GES imeni 22nd PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, TITLE: no.13, 1962, 37-45) Tests were made on 500 kV air circuit-breakers type DBHP -20001-500/2000 (VVNR-20001-500/2000) with a rated current of 2000 A and a breaking capacity of 20 000 mVA, with ten extinction chambers and with disconnectors having four breaks per phase. The circuit breaker is developed for a recovery voltage of 3.5 Uphase = 1160 kV effective with a maximum formation time of phase 10 milliseconds. According to test laboratory data the disconnector was of reduced electric strength, 2.7 Uphase Card 1/6/

5/196/62/000/013/014/018 E194/E155 The principal

Testing of 500 kV air circuit ...

= 1160 kV effective. object of the test was to determine the possibility of doing without shunting resistors of 3000-2000 ohms on the main extinction effective instead of 3.5 Uphase chambers. These resistors greatly increase the cost of the circuit breakers (1.5 tons of nichrome for a three-phase set) and according to data from preliminary tests on models, they are effective in reducing the overvoltage only when disconnecting unloaded sections of line accompanied by recurrent restriking of the arc in the circuit breaker. Tests were carried out with the circuit shown in the sketch using a reduced working voltage of 170 kV on the receiving end of the transmission line U8. (sub-station no.2). Protective spark gaps were used to limit the value of the main tests were carried out on circuit breaker BB3 overvoltage. To assess the part played by the electromagnetic instrument voltage-transformers when disconnecting an unloaded line between substations nos. 2 and 4, all three voltage transformers were connected in the red phase, only two in the green phase and none in the yellow phase. Overvoltages and Card 2/6 1

5/196/62/000/013/014/018 E194/E155

Testing of 500 kV air circuit ...

currents were recorded at three positions: at substations 4 and 2 and at the hydro-power station. Seventy-eight effects were recorded simultaneously with multi-beam cathode-ray oscillographs and forty by means of electromagnetic oscillographs. programme of investigations included: a) overvoltage measurements on interruption of electrical transmission under conditions of synchronous operation of the Moscow system and of the hydro-power station (the disconnection was effected by circuit breakers BB1, B33 and BB4); b) similarly but with synchronous operation of the Moscow system and the power station (interruption was effected by circuit breaker BB3); c) overvoltage measurements on disconnecting an unloaded section of the line 425 km long between substations nos. 4 and 2 with circuit breaker BB4; d) overvoltage measurements on disconnecting an unloaded section of line 559 km long between the hydroelectric power station and e) overvoltage measurements on disconnecting an unloaded section of the line 423 km long substation no.2 by circuit breaker BB1; between substations nos. 4 and 2 by circuit breaker BB3. section was disconnected as part of an unloaded line 982 km long (breaker BB4 was first opened). In this case the circuit-breaker Card 3/ € ≤

Testing of 500 kV air circuit ...

S/196/62/000/013/014/018 E194/E155

operating conditions were more severe than in tests c and Detailed test results are tabulated. During the course of the programme there were cases of disconnecting short-circuits on the line, which occurred during several protective spark gap breakdowns, and also during inter-phase flashover of line insulators during one of the tests. These cases afforded the possibility of checking the reliability of the circuit breakers in disconnecting short-circuits and permitted the following new observations. The overvoltage wave which causes the short-circuit is reflected from the point of the short-circuit with inverted sign and is then doubled on the substation (or power station) busbars if these latter operate under 'dead end' conditions. Dangerous overvoltages then occur on the substation even before disconnection of the short-circuit commences. This circumstance caused additional operations of the protective spark gaps at the hydroelectric station when the protective spark gap operated in no.2 substation (tests on disconnecting unloaded section of 423 km by circuit breaker BB3) and during interphase flashover of line insulators occurring at the instant of interruption of a line Card 4/0/2

Testing of 500 kV air circuit ... S/196/62/000/013/014/018 E194/E155

length of 981 km by circuit breaker BB4. The following conclusions are drawn from the tests. 1) Tests on circuit breaker VVNR-20001-500/2000 were carried out under difficult conditions in respect of recovery voltage (up to 3.85 U with t = 5 - 10 milliseconds). They showed that the circuit-breaker extinction chambers operate with complete reliability under all the required switching conditions (interruption of synchronous and asynchronous transmission, disconnection of unloaded lines, shunting the extinction chambers. 2) An electric strength of phase for the circuit breaker disconnector is insufficient for reliable operation in a 500 kV electrical transmission system and it should be raised to 3.5 U

[Abstractor's note: Complete translation.]

Card 5/4 <

RODIONOV, Ye. A., Cand Med Sci

Dissertation: "Sanitary-Planning Considerations and Requirements for Building and Organizing Farmsteads in Collective Farms of the Middle Belt of the USSR." Central Organizing Farmsteads in Collective Farms of the Middle Belt of the USSR." Central Inst for Advanced Training of Physicians. 11 Feb 47

So: Vechernyaya Moskva, Feb 1947 (Project #17836)

RODIONOV, YE. A.

29231 Mikroklimaticheskiye usloviya v sborno-shchitovykh finskikh domakh. Gigiyena i sanitariya, 1949, No 8, s. 13-17

SO: Letopsi' Zhurnal'nykh Statey, Vol. 39, Moskva, 1949

CIA-RDP86-00513R001445 "APPROVED FOR RELEASE: Tuesday, August 01, 2000

RODIONOV, YE. A.

AID P - 2455

USSR/Medicine Subject

Pub. 37 - 2/18 Card 1/1

Rodionov, E. A., Kand. of Med. Sci. Author

THE RESERVE THE PROPERTY OF THE PERSON OF TH Some problems of the planning and organization of machine Title

and tractor stations

Periodical: Gig. i san., 6, 6-11, Je 1955

This article is based on the author's study of twenty Abstract

machine and tractor stations, as well as on his analysis of twenty seven projects for their reconstruction. It is an attempt to help the regional medical and epidemiological stations which are hampered by the absence of sanitary rules and hygienic literature dealing with the organization of machine and tractor stations. Two

sketches of construction projects.

Moscow Regional Scientific Research Institute of Institution:

Sanitation and Hygiene

July 3, 1954 Submitted :

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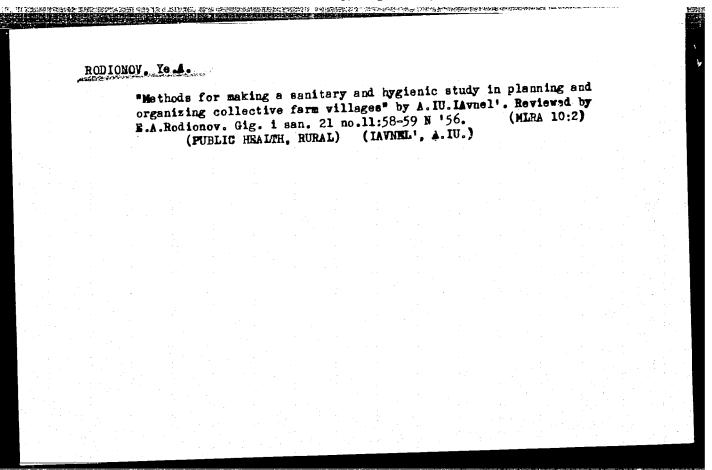
Problems of planning and constructing new state grain farms. Gig. 1
san. 21 no.4:11-15 Ap '56.

1. Iz Moskovskogo oblastnogo nauchno-issledovatel'skogo sanitarnogigiyenicheskogo instituta.

(AGRICULTURE.

organiz. of state grain farms in Russia (Rus))

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450



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AIMMOR: Kolesnikov G. S.	; Rodionova, Ye. F.; Gavriko	va, L. A.; Moiseyev, A. A.	
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Class 39, No. 168426			
	teniy i tovarnykh znakov, no	. 4. 1965. 59	
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RODIOHOV, Ye.I., inzh.

Correction of oil ejection in hydrogenerators. Elek.sta. 31 no.7:
87-88 Jl '60.

(Hydraulic turbines)

ALEKSEYEV, V.B., kand.tekhn.uauk, dots.; RODIONOV, Ye.G., inzh.

Installation of uprights by means of the washing out of soil. Elek.i tepl.tiaga 3 no.7:28 J1 '59. (MIRA 13:3)

(Electric lines--Poles)

(Electric railroads--Wires and wiring)

	"Heat trans	fer for	laminar	water :	flow in	vertic	al tube	es."				
	report subm May 1964.	ritted fo	or 2nd A	ll-Unio	n Conf o	n Heat	& Mass	Trans	sfer, l	linsk,	4-12	
	Moscow Wood	i Technol	.ogy Ins	t								
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RODIONOV, Ye.L., inzh.

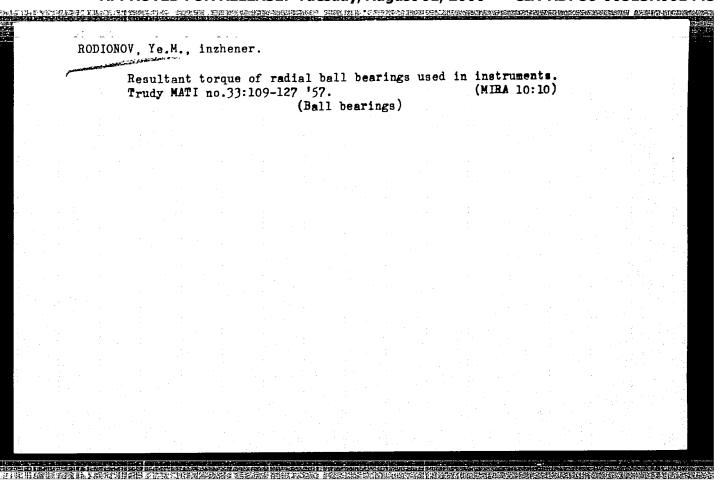
Criterial heat transfer equation in the establishment of free convection in a forced laminar flow. Teploenergetika 12 no.6: 81-84 Je 165.

RESERVANCE PROBLEM PROSESSION OF THE PROPERTY OF THE PROPERTY

1. Moskovskiy Lesotekhnicheskiy institut.

ROMANENKO, Pavel Nikanorovich, prof.; MOROZOV, Aleksandr Viktorovich, dots. Prinimal uchastiye RODIONCV, Ye.L., inzh.; PITERMAN, Ye.L., red.izd-va; KARLOVA, G.L., tekhn. red.

[Arrangement and design of boiler units for industrial boiler rooms] Komponowka i raschot kotlongregatov promyshlennykh kotel nykh. Moskva, Gosleshusizdat, (MIRA 17:2)



26539 s/536/59/000/040/003/005 E191/E481

13,2000

Rodionov, Ye.M., Candidate of Technical Sciences

AUTHOR: TITLE:

The effect of manufacturing factors on the accuracy of

sensing systems in compass transmitters

PERIODICAL: Moscow. Aviatsionnyy tekhnologicheskiy institut.

Trudy, No. 40. 1959. Voprosy tekhnologii

priborostroyeniya, pp.71-86

The deviation and dynamic errors of the magnetic compass TEXT: transmitter are fundamental errors even of the ideal compass and have been studied for many years. The present paper deals with the errors found only in a real compass. These are sub-divided into two major groups, namely (1) errors due to inaccuracies in components and assemblies including clearances in the gimbal hinges and scale reading inaccuracies and (2) delay errors due to The first group friction in the cartridge and gimbal bearings. includes the sub-groups of (a) scale errors, (b) errors of the sensing system and (c) equivalent bearing errors. The second group includes the sub-groups of (a) delay due to friction in the cartridge bearing, (b) delay due to friction in the gimbal Card 1/5

26539 \$/536/59/000/040/003/005 E191/E481

The effect of manufacturing ...

bearing and (c) delay due to friction in the remote transmitter. To determine the effect of these errors, the conditions of static equilibrium of the cartridge in a real compass are considered. A system of equations is set up stating the conditions of static equilibrium in terms of the significant primary errors in the The assumption of small cartridge and the gimbal suspension. errors and small deviations of the cartridge axis from the vertical yields an approximate solution in which the error of the real compass is stated as a function, under static conditions, of the primary errors and the course. Analysis has shown that the angles of deviation of the cartridge axis from the vertical due to the primary errors of the gimbal suspension are independent of the Certain primary errors have no significant effect on the deviations, for example the out-of-true between the cartridge axis and the inner frame hinge axis. A chart plane familiar from gyroscopic theory is used for a graphic display of the behaviour of the cartridge axis when the course is changed. This chart is the intersection of the cartridge axis with a horizontal plane at a The deviation of the unit distance from the centre of suspension. intersection point from the vertical point of the ideal compass is Card 2/5

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The effect of manufacturing ...

discussed in terms of this circular chart as a function of some of the inaccuracies enumerated earlier. A special compass model was tested to verify the analysis concerning the behaviour of an imperfectly balanced compass. The theoretical trajectory and experimental points are shown to agree. The error of the sensing system is analysed as a sum of several terms due to the primary errors of the sensing system, the friction in the cartridge bearings, the friction of the sliding contacts in the transmitter and the errors in the compass ball-bearing. The analysis supported by experiments with a special model incorporating pre-set unbalance values and other errors yields several conclusions. the cartridge only is balanced in the manufacture of the compass then the error of the sensing system is independent of several primary inaccuracies (within limits), namely the displacement and skew angle of the magnets in relation to the axis of rotation of the cartridge, the difference in the magnetic characteristics of magnet pairs, the out-of-true and out-of-plane between the axes of the gimbal, the deviation of the axes of the external frame from the horizontal and the out-of-true between the cartridge and inner Card 3/5

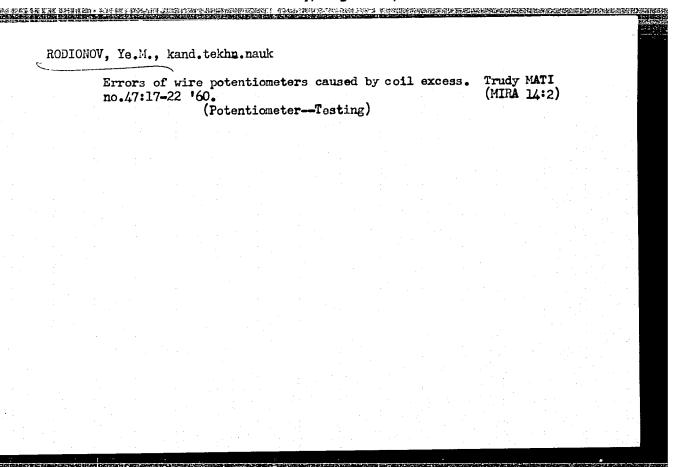
26539 S/536/59/000/040/003/005 E191/E481

The effect of manufacturing ...

frame axes. This is in part due to the fact that these inaccuracies are normally held within very close tolerances. If so, the compass error is affected by the amount of residual unbalance of the cartridge, the displacement between the centre of gravity of the inner frame from the intersection of the gimbal axes, the displacement of the cartridge axis from the intersection of the gimbal axes, the displacement of the centre of gravity of the gimbal from its axis of rotation and the axial clearance in the inner frame hinges. These inaccuracies do not receive, as a rule, the attention they deserve. If both the cartridge and the inner frame are balanced in the manufacture of the compass, then the compass error is affected only by the amounts of the residual unbalances of the inner frame and the cartridge and all the primary errors considered here have no practical significance. The instrument error of the real sensing system has mainly a semicircular pattern, The need to mass balance the inner frame as well as the cartridge is the most important result of the present analysis. I.P. Beloventsyy, I.P. Kolongo, A.N. Krylov, Academician N.G. Bruyevich and Professor N.A. Kalashnikov are mentioned in the article for their contributions in

The effect of manufacturing ... \$\frac{20539}{5/536/59/000/040/003/005}\$\$ this field. There are 4 figures.

Card 5/5



\$/536/61/000/052/003/008

13,2520

TITLE:

Rodionov, Ye.M., Candidate of Technical Sciences

Gyroscopic drift induced by friction in the Cardan ball-AUTHOR:

bearings and reduction of this drift by means of rotating

Moscow. Aviatsionnyy tekhnologicheskiy institut. Trudy, SOURCE:

no. 52, 1961. Nekotoryye voprosy sovremennoy tekhnologii

priborostroyeniya, 33 - 44

TEXT: The author gives a detailed analysis of a non-stationary TEXT: The author gives a detailed analysis of a non-stationary gyroscopic drift, due to the moments opposing the rotation of Cardan ball-bearings and suggests the means of reducing this drift by applying oscillating rotations of the external rings of Cardan bearapplying oscillating rotations of the external rings of cardan bearapplying oscillating rotations of the external rings of cardan bearapplying oscillating rotations of the external rings of cardan bearapplying oscillating rotations of the external rings of cardan bearapplying oscillating rotations of the external rings of cardan bearapplying oscillating rotations of the external rings of cardan bearapplying oscillating rotations of the external rings of cardan bearapplying oscillating rotations of the external rings of cardan bearapplying oscillating rotations of the external rings of cardan bearapplying oscillating rotations of the external rings of cardan bearapplying oscillating rotations of the external rings of cardan bearapplying oscillating rotations of the external rings of cardan bearapplying oscillating rotations of the external rings of cardan bearapplying oscillating rotations of the external rings of cardan bearapplying oscillating rotations of the external rings of cardan bearapplying oscillating rotations of the external rings of cardan bearapplying oscillating rotations of the external rings of cardan bearapplying oscillating rotations of the external rings of cardan bearapplying oscillating rotations of the external rings of cardan bearapplying oscillating rotations of the external rings of the rotation of the external rings of cardan bearapplying oscillating rotations of the external rings of the rotation rings. the active moment M_a , resulting from consecutive displacement of the outer bearing ring. While $M_{ ext{fr}}$ could be easily determined, accurate analytical determination of M_a was found impossible because of ran-Card 1/3

Card 2/3

S/536/61/000/052/003/008 D201/D301

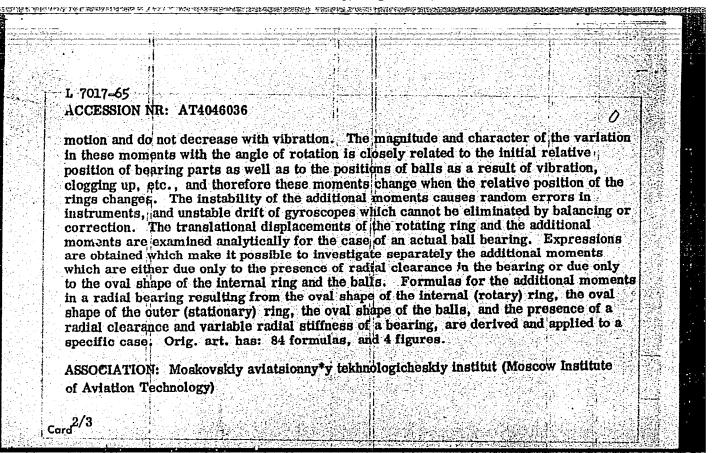
Gyroscopic drift induced by friction ... D201/D301 dom errors in the bearing and component parts dimensions. The terms determining Ma, however, have been ascertained for some particular cases, e.g. for Ma induced by the radial gap in radial bearings and the ellipticity of rings and balls. These components which result in a periodicity of M_a , have been evaluated experimentally and the results of analysis of the obtained resulting graph used to analyze the movement of a simple astatic gyroscope with three degrees of freedom, fixed on a rotating platform. The results have shown the applicability of oscillating and rotating horizontal ball-bearings applicability of the resulting gyroscope drift. The use of oscillator reduction of the resulting gyroscope drift. ting bearings reduced gyroscope drift considerably, although the amplitude of these oscillations has to be considerable to be effective. The rotation of external bearing rings, in one direction or the other, results in an increase of angular velocity of all harmonics and reduces sharply the amplitude of gyroscope oscillation around the y-axis. Reduction of this drift can be determined analy-tically and e.g. for the analyzed case the resultant residual gyroscope drift did not exceed 0.010 per hour at harmonic oscillation of 30 r.p.m. The usual low efficiency of oscillating bearing is thought to be due to the fact that in practice no damping of active resis-

S/536/61/000/052/003/008

Gyroscopic drift induced by friction ... D201/D301

tance action of bearings on the gyroscope is attempted. There are 3 figures.

L 7017-65 EWT(d)/EWT(1)/EWT(m)/EPT Pq-L/Pr-L/Ps-L ARWL/ASD(a)-5/ASD(F(c)/EFR/T/EMP(q)/EMP(b) Pg-U/Pk-U/P1-U/Po-)4/ d)/AFETR/AFMDC/SSD/BSD/RAEM(a)/ESD(t) DJ/JD
ACCESSION NR: AT4046036	8/2536/64/000/059/0054/0073
AUTHOR: Rodionov, Ye. M. (Candidat	e of technical sciences)
TITLE: Moments arising from defects	in the shape of the rolling surface of a ball bearing
Tekhnologiya i konstruirovaniye giropr instruments), 154-73	iborov (Technology and design of gyroscopic), gyroscope, ball bearing, ball bearing defect,
friction, ball bearing rotation, gyrosco	
ABSTRACT: The paper proposes, in a	a general form, a method for determining the mal moments of friction affecting rotation in ball
bearings which are produced by transit	to defects in the shape of the rolling surfaces of
rings and balls, as well as to the pres- which varies with the angle of rotation	ence of a radial clearance, a bearing stiffness, and other causes. These additional moments reary with the angle of rotation and, in contrast to do not change their sign when reversing the bearing



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u hall hearing. Truly MATI no.59:54-73 154. (MIPA 17:10)

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1 ACC NR: ADSOLUTE (A) SOURCE CODE: UR/0413/00/000/000/	
W. F. Levin, B. B.; Fetin, I. N.	5
ROLLINGOR, Kolesnikov, G. S.; Rodionova, Ye. F., Ecvily	
ACC NR. AP6011235 (A) SOURCE CODE: UR704167 INVENTOR: Kolesnikov, G. S.; Rodionova, Ye. F.; Levin, B. B.; Fetin, I. N.	
ORG. none Class 39,	
ORG: none TITLE: Method of obtaining phosphorus-containing copolymers. Class 39,	
No. 179922 /	75
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No. 179922 / SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 6, 1966, 7	
TOPIC TAGS: copolymer, copolymerization, styrene, organic phosphorus	
TOPIC TAGS: copolymer, copolymer	
compound	
ABSTRACT: An Author Certificate has been issued for a method of obtaining abstract: An Author Certificate has been issued for a method of obtaining with unsaturated phosphorus-containing copolymers by copolymerization of styrene with unsaturated phosphorus compounds in block or solution at temperatures of 50 to 120C in the initiator. To increase the	i
ABSTRACT: An Author Certificate by copolymerization of styrene with under the phosphorus containing copolymers by copolymerization of styrene with under the phosphorus compounds in block or solution at temperatures of 50 to 120C in organophosphorus compounds in block or solution at temperatures. To increase the organophosphorus containing azoizobutyric acid as the initiator.	
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the presence of unsaturated organophosphorus compounds, a r	
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is used as the initiator. SUB CODE: 11,07/SUBM DATE: 18Jun63/ RDC: 678.85: 678.746.12.547.341	
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Card 1/1	

s/089/62/013/005/010/012 B102/B104

AUTHORS:

Karpacheva, S. M., Rodionov, Ye. P.

TITLE:

Peculiarities in the distribution of extracted substances in the washing portion of extraction-washing apparatus

PERIODICAL: Atomnaya energiya, v. 13, no. 5, 1962, 486-491

TEXT: The characteristics of substance distribution in the washing zone of the extraction apparatus were calculated using the results obtained by A. M. Rozen et al. (Atomnaya energiya, 7, no. 3, 277, 1959; Zh. neorganich. knim. II, no.8,1959, 1957;4, no. 5, 1210, 1959; Radiokhimiya, 2, no. 1, 13, 1960; 4, no. 6, 1962). The isotherms of the equilibrium distribution of HNO, between aqueous uranylnitrate solutions and a 20% tributylphosphate solution in kerosene (extracting agent) were calculated for various concentrations of HNO, in the aqueous and in the organic phases, respectively. The acid concentration in the TBPh-solution decreases strongly when the uranylnitrate concentration in the aqueous and organic phases is slightly reduced. The washing conditions in the Card 1/4

S/089/62/013/005/010/012 B102/B104

Peculiarities in the distribution ...

extraction-washing column depend on the flux ratio n of organic and aqueous phases. The effect of this ratio in the extraction zone on the HNO₃ contents in aqueous and organic phases in the washing zone, and on the uranylnitrate content in the aqueous phase of the washing zone, are determined and the effect of acid distribution over the column is investigated. Also the distribution of microelements, especially plutonium (Fig 3), is determined. The Pu distribution coefficient an plutonium (Fig 3), is determined. The Pu distribution coefficient an consider of the five stages M shown in Fig. 3 as 0.42, 0.32, 0.26, 0.2, 0.30, changes for the five stages M shown in Fig. 3 as 0.42, 0.32, 0.26, 0.2, 0.30, i. e. in the upper section of the column Pu is re-extracted. Using i. e. in the upper section of the washing zone is given. For the nitric ing the element distribution in the washing zone is given. For the nitric acid content in the organic phase in the extraction zone

 $y_{ex}^{H} \approx 0.14 \left[1 + 0.02(x_{N}^{U}/100)^{3} \right] \eta - 0.059/x_{N}^{H} \quad mole/1$

is obtained for 20% TBPh solution as extracting agent. $\eta = n_{ex}/n_{ex}^{lim}$,

 x_N^H and x_N^H are the uranylnitrate and acid concentrations in the aqueous Card 2/4

S/089/62/013/005/010/012 B102/B104

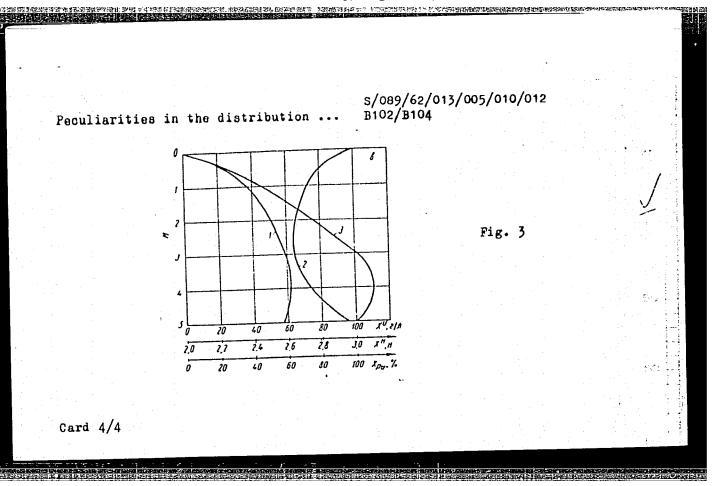
solution of the extraction zone. A method of determining graphically the number of stages for U and HNO is demonstrated. There are 5 figures.

SUBMITTED: September 11, 1961

Peculiarities in the distribution ...

Fig. 3. Distributions of uranylnitrate (curve 1, abscissa x^U , g/1), HNO₃ (curve 2, abscissa x^H , n) and Pu (curve 3, x_{Pu} , %) in the aqueous phase of the washing zone in the extraction column for M=5.

Card 3/4



ROZEN, A.M.; KARPACHEVA, S.M.; MEDVEDEV, S.F.; RODIONOV, Ye.P.; KISELEVA, L.F.

Mass transfer in the extraction and reextraction of uranyl nitrate
in packed columns. Ekstr.; teor.,prim.,app. no.2:284-293 '62.

(MIR. 15:9)

(Uranyl nitrate)

(Extraction (Chemistry))

(Mass transfer)

KARPACHEVA, S.M.; RODIONOV, Ye.P.

Characteristics of the distribution of extracted substances in the washing part of a mix-and-settle extractor. Atom. (MIRA 15:11) energ. 13 no.5:486-491 N '62.

(Extraction apparatus)

RODIONOV, Ye.P.: GLUKHOV, N.A.; ENAMENSKIY, A.A., redaktor; YAKOBSON, M.O., redaktor.

[Surface finish and apparatus for rating it] Chistota poverkhnosti i pribory dlia ee otsenki. Moskva, Trudrezervisdat, 1953. 41 p. (Surfaces (Technology)) (MIRA 7:8)

RODIONOV, Yevgeniy Pavlovich; PUSH, V.K., nauchnyy redaktor; KONTSEVAYA,

M.M.; redaktor; KUZ'MIN, D.G., tekhnicheskiy redaktor

[Lathes] Tokarnye stanki. Moskva, Vses. uchebno-pedagog. izd-vo

Trudrezervizdat, 1956. 102 p.

(Lathes)

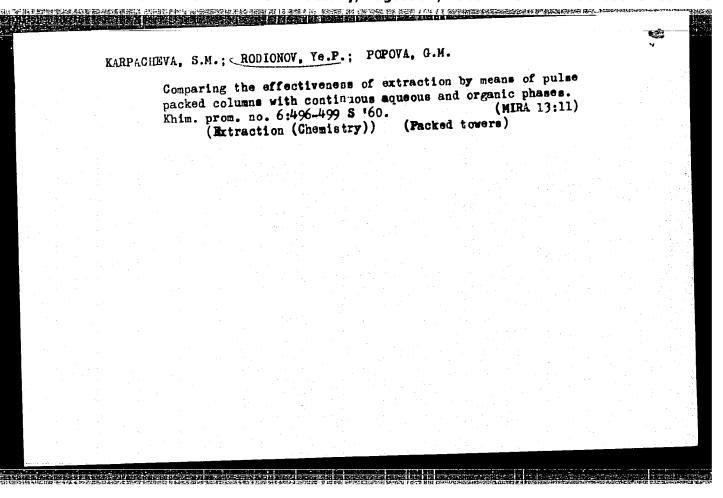
(Lathes)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

ROZEN, A.M.; KARPACHEVA, S.M.; MEDVEDEV, S.F.; RODIONOV, Ye.P.; KISELEVA, L.F.

Investigating mass transfer in packed columns during extraction by means of tributyl phosphate (extraction and reextraction of nitric acid). Khim.prom. no.7:627-630 O-N '59. (MIRA 13:5) (Packed towers) (Mass transfer)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

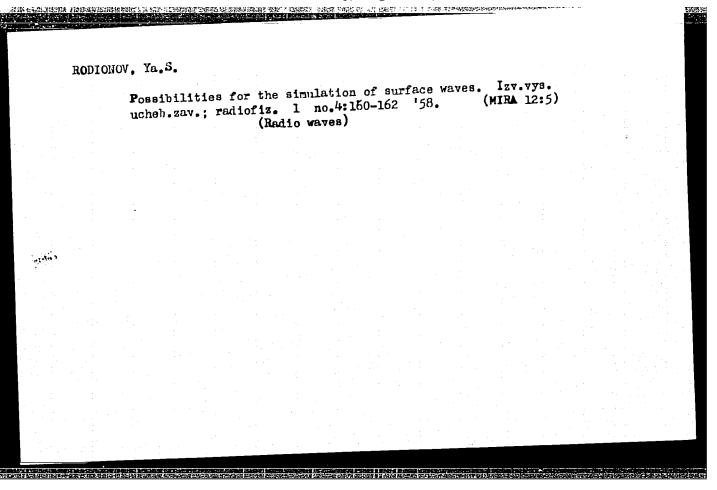


RODIONOV, Yevgeniy Pavlovich; KATS, B.G., nauchnyy red.; ROMANOV, B.V., red.; PERSON, M.N., tekhn.red.

[Lathes; album] Tokarnye stanki; al'bom. Moskva, Vaes.uchebnopedagog.izd-vo Proftekhizdat, 1960. 105 p.

(MIRA 14:4)

(Lathes)



DVINSKIY, E.; ZUBCHENKOV, P.; RODIONOV, Yu., red.

[Moscow; a photoalbum] Moskva; fotoal'bom. Moskva, Mosk. (MIRA 16:7)

rabochii, 1963. l v. (Moscow--Views)

RODIONOV, Yu., red.; Lill'YB,A., tekhn.red.

[Through Moscow; a concise guidebook] Po Moskve; kratkii putevoditel'. Izd.2. parer. Msok.rabochii, 1958. 638 p. (Moscow--Description--Guidebooks) (MIRA 11:12)

RODIONOV, Yu., redaktor; IGNAT'YEVA, A., tekhnicheskiy redaktor.

[Moscow footwear] Moskowskaia obuv'. [Moskva] Moskowskii rabochii,
1954. 69 p.

(Moscow--Shoe industry)

KUDELIN, Petr Grigor'yevich; RODIONOV, Yu., redaktor; LIL'YE, A., tekhnicheskiy redaktor

[Walks in the vicinity of Moscow; concise manual] Progulki po Podmoskov'iu; kratkii spravochnik. [Moskva] Moskovskii rabochii. 1957. 180 p. (Moscow Province--Description and travel)

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AUTHORS:

Baranov, S. A., Polevoy, R. M., Rodionov, Yu. F., Shishkin

G. V., Shubko, V. M.

TITLE:

Investigation of the Radioactive Decay of Th²³¹

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960,

Vol. 24, No. 3, pp. 261-271

The article under review was read at the Ninth All-Union Conference on Nuclear Spectroscopy (Khar'kov, January 26 - February 2, 1959). Th²³ is a well-known β -emitter with a half-life of 25.6 hours; numerous investigations of the level scheme have already been conducted. The authors were stimulated to further investigations by the fact that a level scheme deviating from Ref. 5 had been published in Ref. 4. The sample was obtained by bombarding Th²³⁰ with slow neutrons in the RFT reactor. The subsequent chemical treatment of the sample is described in the introduction. Numerous details concerning measurements of the electron spectrum are reproduced in the 2nd section. Fig. 1 shows the most

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Investigation of the Radioactive Decay of Th231

S/048/60/024/03/02/019 B006/B014

interesting part of the electron spectrum in the region of from 150 to 1,100 gauss.cm. y-Spectrometric measurements are described in the 3rd section. Fig. 2 shows the spectrum of X-ray and soft γ-radiation of Pa231 taken by means of proportional counters that were filled with heavy gases. Measurements showed among other things that the most intense y-rays with 25.6 and 84.1 kev do not occur in a cascade, that the 26-kev quanta coincide with the 58-, 95-, 145-, 163-, and 218-kev quanta, but not the 250-kev quanta with the more intense 26- and 84-kev quanta. The 4th section deals with the determination of the multipolarities of certain γ -transitions, and the 5th section with details of the Pa²31 level scheme. The bulky numerical material yielded by the investigations is clearly compiled in tables. Table 1, which extends over 3.5 pages, offers an interpretation of the electron lines occurring in the Th231 β Pa231 decay, Table 2 supplies data of the energy of γ-transitions of the Pa231 nucleus, and Table 3 provides the absolute and relative conversion coefficients for the y-rays of Pa231. Fig. 3 shows the level scheme as it proceeds from results of measurements. This scheme agrees with that obtained by Nilsson from at least the qualitative side,

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but is not in agreement with those published in Refs. 4 and 5. The authors finally thank P. E. Nemirovskiy for discussing results. There are 3 figures, 3 tables, and 16 references, 3 of which are Soviet.

B

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BARANOV, S.A.; KULAKOV, V.M.; SAMOYLOV, P.S.; ZELENKOV, A.G.;
RODIONOV, Yu.F.; PIROZHKOV, S.V.

Fine structure of α -radiation from Pa²³¹ and energy level scheme
of the Ac²²⁷ nucleus. Zhur. eksp. i teor. fiz. 41 no.5:1475-1483
(MIRA 14:12)

(Protactinium—Decay)
(Actinium)
(Quantum theory)

31769 S/056/61/041/006/008/054 B108/B138

24.6400

AUTHORS: Baranov, S. A., Kulakov, V. M., Samoylov, P. S.,

Zelenkov, A. G., Rodionov, Yu. F.

TITLE:

The radioactive decay of Np 237

PERIODICAL:

Zhurnal eksperimentalinoy i teoreticheskoy fiziki, v. 41.

no. 6(12), 1961, 1733-1739

TEXT: The authors studied the radioactive decay of Np 237 by means of magnetic double-focusing α - and β -spectrometers, spectrometric proportional counters, scintillation spectrometers, and other device described in previous papers (e.g. P. S. Samoylov, PTE, $\underline{6}$, 33, 1959). The α -spectrum

from Np 237 is highly complex, consisting of 20 monoenergetic lines (Table 1). The resolution of the β -spectrum was rather poor owing to the low activity and thickness of the source. Data on new γ -transitions for Pa 233 as determined from the electron and gamma spectra are given in Table 2. An energy level scheme for Pa 233 is constructed on the basis of

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The radioactive decay of Np 237

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the data obtained (Fig. 2) which is not, however, regarded as complete. The authors thank S. N. Belen'kom, K. I. Merkulova, A. A. Arutyunov, Yu. I. Dmitriyev, and the student at MIFI. Yu. I. Filenko for help as well as G. I. Khlebnikov for the radiochemical purification of Np²³⁷ There are 2 figures, 2 tables, and 24 references: 6 Soviet and 18 non-Soviet. The four most recent references to English-language publications read as follows: D. Strominger, J. M. Hollander. UCRL-8289, Berkeley, California, 1958; F. Stephens et al. Phys. Rev., 113, 212, 1959; J. Hubbs, J. Winicur. Bull. Am. Phys. Soc., 11, 319, 1958; J. Hamilton et al. UCRL-9438, Berkeley, California, 1960.

June 21, 1961 SUBMITTED:

Legend to Table 1: (1) forbiddenness factor, (2) level energy, ker * Sum J_{13} + J_{14} + J_{Z} = 2.178. ** Sum of three lines α_{x} + α_{y} + α_{15}

Legend to Table 2: Y-transition energies (kev) of Pa 233 obtained with (1) B-spectrometer, (2) proportional counter, (3) y-spectrometer.

(4) multipolarity

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BARAMOV, S.A.; SAMOYLOV, P.S.; RODIONOV, Yu.F.; BELEN'KIY, S.H.; PIROZHKOV, S.V.

Energy levels of the U²³² nucleus. Zhur. eksp. i teor. fiz. 41
(MIRA 15:1)
no.6:1740-1747 D '61.
(Uranium--Isotopes) (Quantum theory)

ACC NR: AP6013493

UR/0120/66/000/002/0055/0059

AUTHOR: Maximov, Yu.S.; Rodionov, Yu.F.; Yavlinskiy, Yu.N.

ORG: Atomic Energy Institute GKAE, Moscow (Institut atomnoy energii GKAE)

TITLE: Semiconductor counters of charged particles, from high resistance n-type conductivity silicone

SOURCE: Pribory i tekhnika eksperimenta, no. 2, 1966, 55-59

TOPIC TAGS: alpha particle, alpha particle detector, alpha particle spectroscopy, alpha spectral analyzer sorter/ AI-100-1 analyzer sorter

ABSTRACT: Charged particle energy measuring detectors of high resistance n-type silicone are described. The conductivity impulse of a charged particle arrival, creating
electron/hole pairs, is discussed. Preparation of the surface barrier detector is deselectron/hole pairs, is discussed. Preparation of the surface barrier detector is described. Tests showed the detector resolving power to be between 1% and 3% of alpha particle energies around 6 Mev. A semiconductor alpha spectrometer is described, combiticle energies around 6 Mev. A semiconductor alpha spectrometer is described, combining a detector with a preamplifier, amplifier and expander. The resulting spectra
ning a detector with a preamplifier, amplifier and expander. The spectrometer charactewere registered by the printing analyzer sorter AI-100-1. The spectrometer charactewere registered by the printing analyzer sorter AI-100-1. The instrument proved to be conristics remained stable for over a year of operation. The instrument proved to be conristics remained stable for over a year of operation. The instrument proved to be conristics remained stable for over a year of operation. Authors thank S.A.Baranov for
venient and fast. Samples of alpha spectra are shown. Authors thank S.A.Baranov has:
his interest and V.S. Shiryaev for assembly and tuning of the system. Orig. art. has:

7 figures.

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ORIG REF: 006

OTH REF: 003 UDC: 539.1.074.5

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CIA-RDP86-00513R0014450

RODIONOV, Yu.F., inzh.; SHIK, L.S., inzh.

Removal of the rotor pole of the KSV-37500-11 synchronous compensator without dismantling the rotor. Energetik 12 no.5:31-32 My '64. (MIRA 17:6)

RODIGEOF, Yu.F., inch.: SHIK, L.S., inzh.

Removal of the rotor cole of the MSV-37500-11 synchronous compensator without dismantling the rotor. Energetik 12 no.5:31-32 My 164.

(MIRA 17:6)

KYUNS, S.A., inzh.; RODIONOV, Yu.I., inzh.

Meeting on the use of overall automation and new electric drive systems for increasing the productivity of metallurgical plants. Vest. elektroprom. 31 no.8:77-79 Ag '60. (MIRA 15:5)

(Metallurgical plants.—Congresses)

(Automatic control): (Electric driving)

